

ABSTRACT OF THE DISCLOSURE

Class-D line driver arrangement

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Line driver arrangement comprising a class-D switching amplifier having a switching frequency for receiving an input transmit signal and outputting an amplified transmit signal and a transformer having a predetermined leakage inductance for receiving the amplified transmit signal and outputting a transform signal as an output transmit signal. The leakage inductance is predetermined for low-pass filtering of the amplified transmit signal. The line driver arrangement reduces the number of additional discrete inductances, capacitances and or resistor for forming low-pass filters significantly. The inventive line driver arrangement is particularly power-efficient due to the included class-D switching amplifier. The predetermined leakage inductance leads to a suppression of a resonance due to the switching frequency of the class-D amplifier in the power spectral density. Hence, the inventive line driver arrangement complies at least with the ADSL PSD mask requirements.

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(Fig. 5)